

इंटरनेट

मानक

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Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

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Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 4741 (1968): Fasteners (Four Pieces) [PGD 14: Consumer Products and Allied Equipments]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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IS - 4741 - 1968

Indian Standard
SPECIFICATION FOR
SNAP FASTENERS (FOUR PICES)

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INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SINGH ZILAK MARG
NEW DELHI 110002

November 1968

Indian Standard

SPECIFICATION FOR SNAP FASTENERS (FOUR PIECES)

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(Continued on page 2)

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IS : 4741 - 1968

(Continued from page 1)

**Press Buttons, Snap Fasteners Buttons (Excluding Plastic Buttons)
and Hooks Subcommittee, CPDC 22:3**

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Indian Standard
**SPECIFICATION FOR
SNAP FASTENERS (FOUR PIECES)**

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 28 August 1968, after the draft finalized by the Fasteners for Consumer Goods Sectional Committee had been approved by the Consumer Products Division Council.

0.2 Snap fasteners (four pieces) are generally used in heavy garments, wallets, leather and plastic goods and other similar equipment.

0.3 Various shapes and designs are prevalent for general purposes and an effort has been made in this standard to bring them under 3 types.

0.4 Pull test included in this specification is based on available data, and further investigations are in hand.

0.5 This standard contains clauses which call for agreement between the purchaser and the supplier and which permit the purchaser to use his option for selection to suit his requirements. The relevant clauses are 4.2 and 7.1.

0.6 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard covers the requirements of spring-type, cage-type and slit-type snap fasteners, each containing four pieces.

*Rules for rounding off numerical values (*revised*).

2. MATERIAL

2.1 The snap fasteners shall be manufactured from the following materials:

- a) Cold-rolled mild steel sheet, deep drawing quality, bright annealed or brass sheet conforming to Designation CuZn37 of IS : 410-1967*.
- b) Phosphor bronze wire conforming to Grade PBz3 of IS : 1385-1959†.

3. SHAPES AND DIMENSIONS

3.1 The shape and dimensions of the snap fasteners shall be as shown in Fig. 1 to 3.

4. MANUFACTURE, WORKMANSHIP AND FINISH

4.1 There shall be two portions of the fastener; one shall be male portion, while the other female portion. Each portion shall have two parts which shall be capable of assembling with the material to be fastened, kept in between, when pressed together.

4.2 All parts of the snap fastener shall be nickel-plated (the coating shall conform to grade B of IS : 1068-1958‡). The cap of the snap fastener shall either be covered by celluloid or plastics sheeting or lacquered or bronzed if required by the purchaser. The snap fastener made from brass may not be plated when agreed to between the purchaser and the supplier.

5. TESTS

5.1 The fastener after being properly clenched on the material shall be tested by opening and closing for 50 times. They shall not show any sign of damage or looseness after the completion of the test.

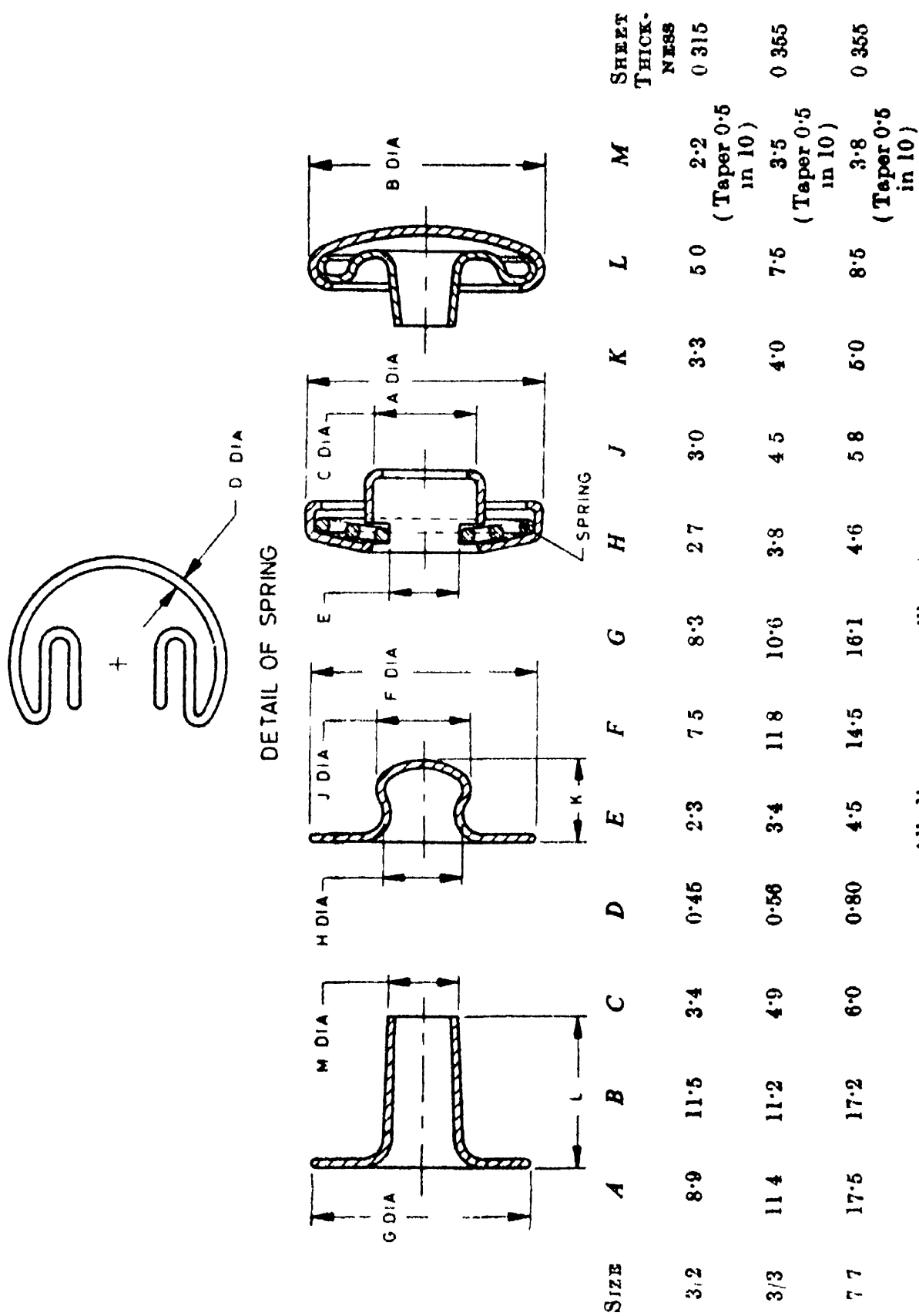
5.2 **Pull Test** — The male and female parts shall disengage when they are subjected to the pull as given below, applied along its centre line:

<i>Type</i>	<i>Size</i>	<i>Pull</i> kgf
Spring	7/7	6 ± 1
	3/3	2 ± 0.5
	3/2	1 ± 0.3
Cage	3/3	2 ± 0.5
	3/2	1 ± 0.3
Slit	3/2	1 ± 0.3

*Specification for rolled brass plate sheet, strip and foil (first revision).

†Specification for phosphor bronze rods and bars, sheet and strip and wire.

‡Specification for copper, nickel and chromium electroplated coatings.



All dimensions in millimetres.

FIG. 1 SNAP FASTENER (FOUR PIECES), SPRING TYPE, SIZES 3/2, 3/3 and 7/7

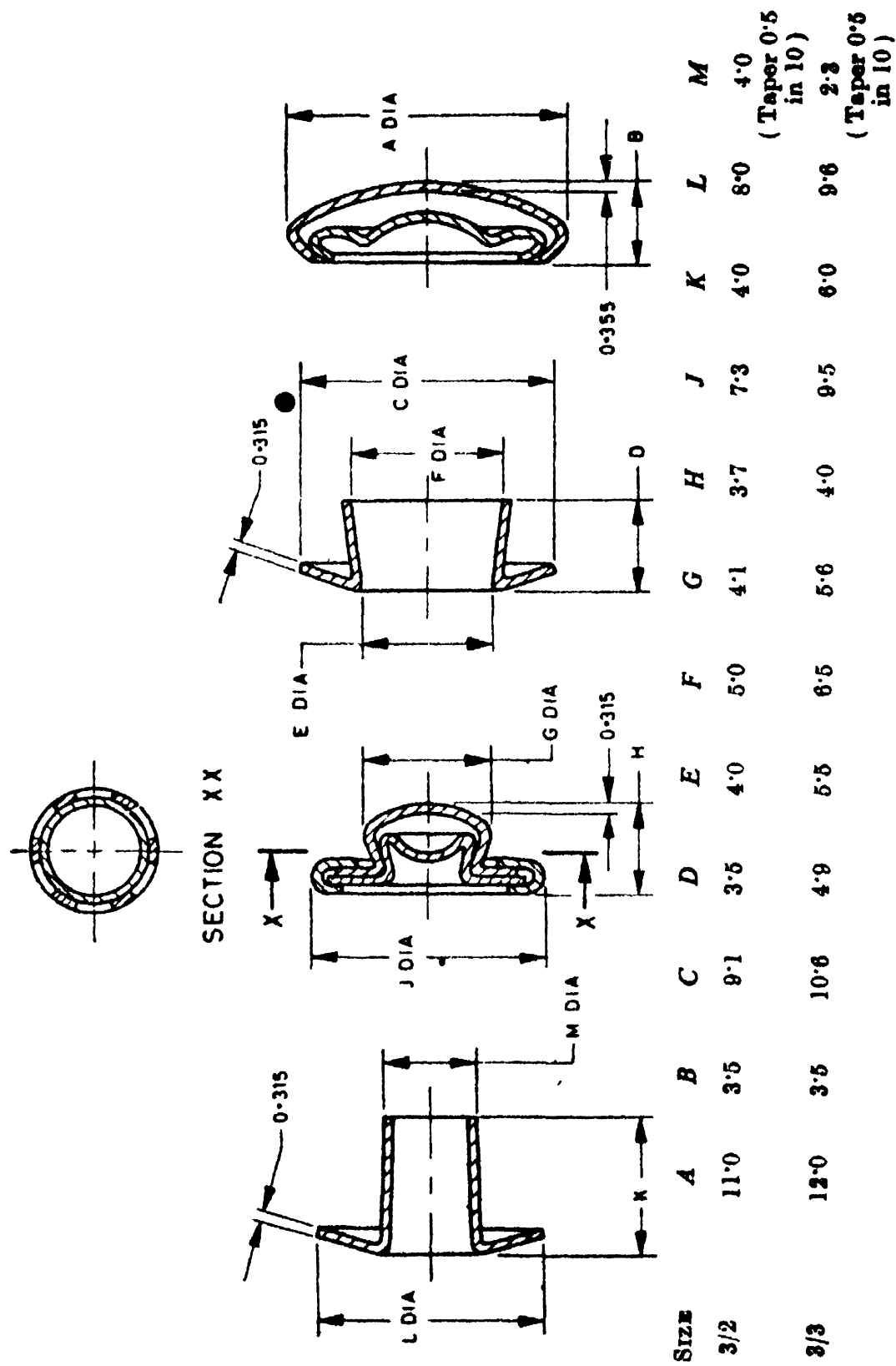


FIG. 2 SNAP FASTENER (FOUR PIECES), CAGE TYPE, SIZES 3/2 and 3/3

AMENDMENT NO. 1 MAY 1973
TO
IS : 4741-1968 SPECIFICATION FOR SNAP
FASTENERS (FOUR PIECES)

A ddenda

(*Page 6, Fig. 2, informal table*) — Add the following matter under the respective column headings after size 3/3:

SIZE	A	B	C	D	E	F	G	H	J	K	L	M
7/7	17.5	4.0	15.0	5.5	7.0	8.1	7.1	6.0	12.0	7.0	13.0	4.5
												(Taper 0.5 in 10)

(*Page 6, Fig. 2, caption*) — Substitute ' SIZES 3/2, 3/3 AND 7/7 ' for ' SIZES 3/2 and 3/3 '.

(CPDC 22)

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6. MARKING

6.1 Each snap fastener shall be clearly and indelibly marked with the manufacturer's name or initials or trade-mark.

6.1.1 Each snap fastener may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

7. PACKING

7.1 The snap fasteners shall be packed in suitable boxes as agreed to between the purchaser and the supplier

INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

Base Units

Quantity	Unit	Symbol
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

Supplementary Units

Quantity	Unit	Symbol
Plane angle	radian	rad
Solid angle	steradian	sr

Derived Units

Quantity	Unit	Symbol	Conversion
Force	newton	N	1 N = 1 kg.m/s ²
Energy	joule	J	1 J = 1 N.m
Power	watt	W	1 W = 1 J/s
Flux	weber	Wb	1 Wb = 1 V.s
Flux density	tesla	T	1 T = 1 Wb/m ²
Frequency	hertz	Hz	1 Hz = 1 c/s (s ⁻¹)
Electric conductance	siemens	S	1 S = 1 A/V
Pressure, stress	pascal	Pa	1 Pa = 1 N/m ²

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